Sacramento-San Joaquin Delta Report to Congress EXECUTIVE SUMMARY

As the hub of California's two largest water distribution systems, the Sacramento-San Joaquin Delta (Delta) supplies drinking water to more than 22 million people and irrigation water to millions of acres of some of the world's most highly productive agricultural land. It is a haven for 750 plant and animal species and home to hundreds of thousands of people.

Yet, this valuable national resource is inadequately protected by an extremely fragile levee system that threatens to fail at any time, even under fair weather conditions. Unlike other levee systems that protect against high water events, the Delta's maze of mostly non-Federal levees must work all day. every day. to keep water from inundating people living below sea level. These hardworking levees are part of the State-wide water conveyance system, but have suffered as local reclamation districts struggle to properly maintain and improve them.

Recognizing the threat of serious levee failure and its widespread effects, Congress directed the U.S. Army Corps of Engineers (USACE) last November to deliver a report that identifies and prioritizes potential levee stability projects in the Delta to be carried out through 2010 using up to the authorized \$90 million to be appropriated for the Federal share of project costs. To quickly identify critical needed projects with active non-Federal support, the USACE invited Delta stakeholders to submit project proposals with letters stating their willingness to participate as cost-sharing sponsors. In response, Delta area reclamation districts and flood management agencies submitted 54 project proposals totaling more than \$1 billion in estimated costs.

The CALFED Bay-Delta Authorization Act directed USACE to prioritize potential projects in this report. The proposals were evaluated according to how well they met USACE environmental, economic, and other implementation criteria. The short-term strategy is to move quickly to construction on high priority levee reconstruction projects identified in this report. The authorized \$90 million of Federal funds, plus the required non-Federal funds, will be an important first step to address Delta-wide levee system needs.

The long-term strategy will be developed in the cost-shared Sacramento-San Joaquin Delta Islands and Levees Feasibility Study. The study's scope will assess existing and future flood risks in the Delta area, as well as ecosystem restoration, recreation, and water supply needs and develop a comprehensive vision and roadmap for future Federal participation in the Della. The plan, in conjunction with California Department of Water Resources' Delta Risk Management Study, will address remaining levee stability work beyond the \$90 million Federal effort authorized in the CALFED Act.

This report is the first step in a multi-year effort to address levee stability concerns in the Delta region. The prioritized list represents levee repair projects that could be accomplished within the funding and procedural limits of the CALFED Act. Many more potential projects were identified than could be accomplished within the limits of the CALFED authorization. Therefore, an additional list has been provided to include all of the identified projects in prioritized order, in the event that either the authorization is modified or non-Federal implementation is pursued.

Prioritization of Proposals for Delta Levees Report to Congress - DRAFT

List 1: Proposals with Submitted Cost Less Than Section 205 Total Cost Limit (\$11 Million)

Brannan-Andrus Levee Maintenance District Levee Improvements S5M Y State Highway 12 H Western island, Utility infrastructure, Adjacent Western island, Utility infrastructure, Adjacent Uniformental benefits. Important habitat, Important habitat, Important habitat, San Joaquin County Office of Emergency Services (Jood contingency) Flood contingency and evacuation engineering A2 A2 A2 A2 A3 A3 A3 A4 A5 A5 A5 A5 A5 A5 A5 A5 A5	Comments
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Maintenance District Levee Improvements \$5M\$ Y Y State Highway 12 H Western Island, Utility infrastructure, Adjacent to developed islands H RD 830 - Jersey Island Levee Improvements \$7M\$ Y Y Salirity gates Environmental benefits. Important habitat, RD 1607 - Van Sickle Island Levee Improvements \$0.75M\$ Y Y Salirity gates H RD 1607 - Van Sickle Island Levee Improvements \$0.75M\$ Y Y Salirity gates H Western Island, RD 2059 - Bradford Island Levee Improvements \$0.75M\$ Y Y Important habitat H San Joaquin County Office of Emergency Services (flood contingency) RD 2028 - Bacon Island Levee Improvements \$0.73M\$ Y Y Management alternative H RD 2028 - Bacon Island Levee Improvements \$0.73M\$ Y Y Water quality importance RD 2028 - Bacon Island Levee Improvements \$0.75M\$ Y Y Solidand RD 2028 - Bacon Island Levee Improvements \$0.73M\$ Y Y Section Regional Wastewater Control Facility flood (wastewater facility) Office of Emergency Services (wastewater facility) protection \$0.75M\$ Y Y Good-proofing alternative need for levees M inelity of the Control of the Cont	
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RD 554 - Walnut Grove Levee Improvements \$0.1M Y Y development project 1 parti	ineligible for funding
RD 554 - Walnut Grove Levee Improvements \$0.1M Y Y development project 1 parti	
High cost for env.	Project might be cost-effective for Corps
	participation if scale is Increased
benefit.	Benefits separate from Webb Tract #1&2
Stability basefit	Levee Improvements
Potential floodplain	
RD 2065 - Veale Tract Levee Improvements \$49M Y Y Agricultural benefits development 1	
Estimated cost Is too	
	Project might be cost-effective for Corps
	participation if scale is Increased
	National Register historic site and National
	Historic Landmark
Water Q/S Importance.	I IISTOTIC LAHUHIAIK
B1 Infrastructure,	THISTOTIC LABOURAGE

	RD 2040 - Victoria Island	Levee Improvements	\$6.3M	N	Y	Cost-effective		Н	
		Levee Improvements				Water conveyance			
	RD 2072 - Woodward Island	Ecvec improvements	\$10.5M	N	Y	EBMUD aqueduct		Н	
_	Drexler Tract	Levee Improvements	\$1.1M	N	Y	State Highway 4		M	
						Utility infrastructure,			
	RD 684 - Lower Roberts Island	Levee Improvements	\$3.1M	N	Y	Cost-effective		M	
						Water Q/S Importance.			
B2	RD 2023 - Venice Island	Levee Improvements	\$5. 1M	N	Y	Infrastructure. Cost-effective		М	
		Levee Improvements	\$7.5M	N N	Y	Agricultural benefits		M	
	RD 2090 - Quimby Island	Levee Improvements	\$11M	N	Y	Agricultural benefits		M	
	RD 2111 - Dead Horse Island	Levee Improvements	\$0.67M	N	Y	Agricultural benefits		M	
	RD 2117 - Coney Island	Levee Improvements	\$1.8M	N	Y	Water conveyance		M	
		Investigation of: flood risks to Bay Area Infrastructure;							Topics are expected to be addressed by
		use of dredged material for levee repairs; mitigation							Delta Islands & levees feasibility study and
	Association of Bay Area	areas for levee repairs and non-structural flood control							Delta LTMS. ABAG could participate as an
	Governments (ABAG)	remedies	\$1.4M	N	Y		Study only	1	additional study co-sponsor.
									Appears to be part of Sacramento River
	RD 307 Lisbon	Sacramento River bank protection	\$2.7M	N	Y		Outer fringe of Delta	1	Bank Protection Project
C2							Potential floodplain	_	
	RD 2024 - Orwood Palm Tract	Levee Improvements	\$7.9M	N	Y		development	I	
		Levee Improvements				Agricultural benefits	Single primary		
	RD 2113 - Fay Island		\$0.42M	N	Y		Beneficiary/owner	1	
							Potential floodplain		
	RD 2119- Wright Elmwood Tract	Levee Improvements	\$3.3M	N	Y	Agricultural benefits	development	1	
							Single primary		
	Shin Kee Tract	Levee Improvements	\$10.9M	N	Y		beneficiary/owner	1	

Prioritization of Proposals for Delta Levees Report to Congress

List 2: All Submitted Proposals (No Section 205 Cost Limit)

Priority			Submitted	Statement of	Cost <\$11				
Group	Potential Sponsor	Description	Cost	Intent?	Million?	Positive Factors	Negative Factors	Priority	Comments
						Existing population and			
	Brannan-Andrus Levee					development (Isleton).			
	Maintenance District	Levee Improvements	\$5M	Y	Y	Slate Highway 12		Н	
	California Department of Water					Innovative solution,			
	Resources and The Nature	McCormack-Williamson Tract flood control and				Interstate 5,			
	Conservancy	ecosystem restoration improvements	\$19.5M	Y	N	Environmental benefits		Н	
						Slate Highway 12,			
	RD 756 - Bouldin Island	Levee Improvements	\$14M	Y	N	Water conveyance		Н	
A1	-					Western Island, Utility			
						Infrastructure, Adjacent			
	RD 830 - Jersey Island	Levee Improvements	\$7M	Y	Y	to developed Islands		Н	
						Environmental benefits,			
						Important habitat			
	RD 1607- Van Sickle Island	Levee Improvements	\$0.75M	Y	Y	Salinity gates		Н	
						Western Island,			
	RD 2059 - Bradford Island	Levee Improvements	\$6M	Y	Y	Important habitat		Н	
	San Joaquin County					Non-structural floodplain			
	Office of Emergency Services	Flood contingency and evacuation engineering	\$0.73M	Y	Y	management alternative		Н	
						Western Island,			
	Bethel Island Municipal					existing population and	Potential floodplain		
	Improvement District (BIMID)	Levee Improvements	\$32.6M	Y	N	development	development	M	
						Western Island,			
	RD 2025 - Holland Tract	Levee Improvements	\$2.8M	Y	Y	Cost-effective		M	
	RD 2026 - Webb Tract #1 &2	Levee Improvements	\$17M	Y	N	Western Island		М	
	RD 2028 Bacon Island	Levee Improvements	\$9.5M	Y	Y	Water quality importance		M	
	RD 2029 - Empire Tract	Levee Improvements	\$21.7M	Y	N	Agricultural benefits		M	
A2	-					Important habitat			
	RD 2033 - Brack Tract	Levee Improvements	\$11M	Y	Y	Ecological reserve		M	
	RD 2037 - Rindge Tract	Levee Improvements	\$41M	Y	N	Agricultural benefits		M	
	RD 2041 - Medford Island	Levee Improvements	\$19.2M	Y	N	Important habitat		M	
							Potential floodplain		
	RD 2044 - King Island	Levee Improvements	\$12.7M	Y	N	Agricultural benefits	development	M	
	RD 2086 - Canal Ranch	Levee Improvements	\$21.7M	Y	N	Agricultural benefits		М	
	San Joaquin County	Stockton Regional Wastewater Control Facility flood				Non-structural	Would not eliminate		Replacement of existing headworks may be
	Office of Emergency Services	protection	\$3.7M	Y	Y	floodproofing alternative	need for levees	M	ineligible for funding
-						Nat'l Reg historic site,	Estimated cost is too		Project might be cost-effective for Corps

RD 554 - Walnut Grove	Levee Improvements	\$0.1M	Y	Y	development	Corps project	L	combine with RD 369.
	Dredging for maintenance and emergency access to							Appears to be a temporary measure
RD 1608 - Lincoln Village West	levee	None	Y	N/A		No cost estimate	L	Primarily for purposes of maintenance
RD 2026 Webb Tract #3	Restore dredge cut	\$6M	Y	Y	Western Island, Environmental benefits	High cost for env. benefit, Stability benefit uncertain	L	Benefits separate from Webb Tract #1&2
	Replace drainage pumps, dredging to reduce flow							
RD 2064 - River Junction	restrictions and levee improvements	None	Y	N/A		No cost estimate	L	
						Potential floodplain		
RD 2065 - Veale Tract	Levee Improvements	\$4.9M	Y	Y	Agricultural benefits	development	L	
RD 2074 Brookside Estates	Levee Improvements	None	Y	N/A		No cost estimate	L	
RD 2130 - Honker Bay	Levee Improvements	None	Y	N/A	Important habitat	No cost estimate	L	
						Estimated cost is too		
						low to be efficient as a		Project might be cost-effective for Corps
RD 2139 - Can Can/Greenhead	Levee Improvements	\$0.38M	Y	Y	Important habitat	Corps project	L	participation if scale Is increased
						Potential floodplain		
						development,		
South Delta Water Agency	Dredging and Stark Trail1evee Improvements	\$60M	Y	N	Water conveyance	Very high cost	L	
						No current cost estimate		
Suisun Resource Conservation						for levee Improvements,		
District	Suisun Marsh levee improvements	>\$65M	Y	N	Important habitat	Very high cost anticipated	L	Cost estimate based on 1982 USACE report
Yolo County						•		
Planning, Resources and Public								Appears to be part of Sacramento River
Works Department	Sacramento River Levee Integrity Investigation	\$15M	Y	N		Study only	L	Bank Protection Project

Existing population and low to be efficient as a

participation if scale is Increased. Possibly

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Prioritization of Proposals for Delta Levees Report to Congress

List 2: All Submitted Proposals (No Section 205 Cost Limit)

Priority			Submitted	Statement of	Cost <\$11				
Group	Potential Sponsor	Description	Cost	Intent?	Million?	Positive Factors	Negative Factors	Priority	Comments
						Historic significance,			National Register historic site and National
	RD 369 - Town of Locke	Levee Improvements	\$2.9M	N	Y	At-risk population		Н	Historic Landmark
						State Highway 12,			
						Interstate 5,			
						existing population and			
	RD 548 -Terminus Tract	Levee Improvements	\$39.3M	N	N	development		Н	
						Water conveyance,			
<u>B1</u>	RD 563 - Tyler Island	Levee Improvements	\$91M	N	N	Important habitat		Н	
	DD 1601 Timited all I-1-14	Y Y	¢20 4M	N	N	Western island,		**	
	RD 1601 - Twitchell Island	Levee Improvements	\$30.4M	N	N	Important habitat Water Q/S Importance,		Н	
	RD 2040 - Victoria Island	Lavas Immuovamants	\$6.3M	N	Y	Infrastructure, Cost-effective		Н	
	KD 2040 - Victoria Island	Levee Improvements	\$0.3141	IN .	1			п	
	RD 2072 - Woodward Island	L avec Immuovamento	\$10.5M	N	v	Water conveyance,		11	
	Drexler Tract	Levee Improvements Levee Improvements	\$1.1M	N N	Y Y	EBMUD aqueduct State Highway 4		H M	
						existing population and	High cost vs. scope,		
						development,	Seismic upgrade		
	RD 17 - Mossdale Tract	Levee Improvements	\$59.5M	N	N	infrastructure	uncertainty	М	
	TO 17 Wossule Heet	Levee improvements	ψ37.3141		11	Imrastractare	Seismic upgrade	141	
		_							
	RD 501 - Ryer Island	Levee Improvements	\$31.35M	N	N	State Highway on levee	uncertainty	M	
						Utility Infrastructure,			
	RD 684 - Lower Roberts Island	Levee Improvements	\$3.1M	N	Y	Cost-effective		M	
B2						Water Q/S Importance,			
						Infrastructure,			
	RD 2023 Venice Island	Levee Improvements	\$5.1M	N	Y	Cost-effective		M	
	RD 2027 - Mandeville Island	Levee Improvements	\$16.2M	N	N	Agricultural benefits		M	
									Appears to be part of Sacramento River
	RD 2038 - Lower Jones Tract	Levee Improvements	\$7.5M	N	Y	Agricultural benefits		M	Bank Protection Project
	RD 2090 - Quimby Island	Levee Improvements	\$11M	N	Y	Agricultural benefits		M	
	RD 2111 - Dead Horse Island	Levee Improvements	\$0.67M	N	Y	Agricultural benefits		M	
						-			
	RD 2117- Coney Island	Levee Improvements	\$1.8M	N	Y	Water conveyance		M	
		Investigation of: flood risks to Bay Area Infrastructure;							Topics are expected to be addressed by
		Use of dredged material for levee repairs; mitigation							Islands & Levees feasibility study and Delta
	Association of Bay Area	areas for levee repairs and non-structural flood control							LTMS. ABAG could participate as an
	Governments (ABAG)	remedies	\$1.4M	N	Y		Study only	L	additional study co-sponsor
							Outer fringe of Delta,		
							Part of Sac River Bank		
	RD 307 - Lishon	Sacramento River bank protection	\$2.7M	N	Y			I.	
	RD 307 - Lisbon	Sacramento River bank protection	\$2,7M	N	Y		Part of Sac River Bank Protection Project	L	

		1	Т	1	1		T		
						Western Island,	Potential floodplain		
						existing population and	development,		
	RD 799 - Hotchkiss Tract	Installation of sheet pile	\$50.7M	N	N	development	High cost	L	
C2						Existing population and	Potential floodplain		
	RD 800 - Byron Tract	Levee Improvements	\$20M	N	N	development	development	L	
							Potential floodplain		
	RD 2024 - Orwood Palm Tract	Levee Improvements	\$7.9M	N	Y		development	L	
						Agricultural benefits	Single primary		
	RD 2113 - Fay Island	Levee Improvements	\$0.42M	N	Y	Agricultural beliefits	Beneficiary/owner	L	
							Potential floodplain		
	RD 2119 - Wright Elmwood Tract	Levee Improvements	\$3.3M	N	Y	Agricultural benefits	development	L	
							Single primary		
	Shin Kee Tract	Levee Improvements	\$10.9M	N	Y		Beneficiary/owner	L	
	Solano County					existing population and			
	Dept. of Resource Management	Collinsville levee Improvements	None	N	N/A	development	No cost estimate	L	